INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/35295

A. CLAS IPC(7)	A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B32B 5/16; C01F 17/00; C09K 11/08					
US CL : 428/403, 404, 407; 252/301.4R, 521.1; 423 21.1, 263						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELI	B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 428/403, 404, 407; 252/301.4R, 521.1; 423 21.1, 263						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST, nanoapex.com, nanomagazine.com, google.com						
C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where ap		Relevant to claim No.			
х	US 6,530,944 B2 (WEST et al) 11 March 2003, col.		1-34			
x	10, line 65 to col. 11, line 45; col. 13, line 1 to col. US 6,783,699 B2 (LI et al), 31 August 2004, col. 4, 32-65; col. 6, lines 15-25; and col. 7, lines 10-28.		1-20			
A	US 5,990,479 A (WEISS et al) 23 November 1999,	entire document.	1-34			
А,Т	US 6,870,311 B2 (MUELLER et al) 22 March 2005.	, entire document.	1-34			
A, T	US 6,846,565 B2 (KORGEL et al) 25 January 2005,	entire document.	1-34			
			·			
Further	r documents are listed in the continuation of Box C.	See patent family annex.				
* Special categories of cited documents: "T" later document published after the international filing date or prior						
"A" document defining the general state of the art which is not considered to be date and not in conflict with the application but cited to understant principle or theory underlying the invention						
· ·	ular relevance pplication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone	claimed invention cannot be ered to involve an inventive step			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the considered to involve an inventive ste combined with one or more other suc	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the	ie art			
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family				
Date of the actual completion of the international search		Date of mailing of the international search report				
	5 (19.06.2005) ailing address of the ISA/US	Authorized officer				
Ma Co P.C	uil Stop PCT, Attn: ISA/US mmissioner for Patents D. Box 1450	H. T. Le Telephone No. 571-272-1511	tuttle			
	Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230					

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Form PCT/ISA/210 (second sheet) (January 2004)

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Box	No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.		Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.	\boxtimes	Claims Nos.: 35 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Claim 35 recites the drawings as the claimed apparatus. The features of the claimed apparatus cannot be determined and/or ascertained. Thus, no meaningful search can be carried out.		
3.		Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box	No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows:				
1. 2. 3.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4. Rei	mark on	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.		

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)